

## Financial Reporting and Analysis

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27<sup>th</sup> September 2018



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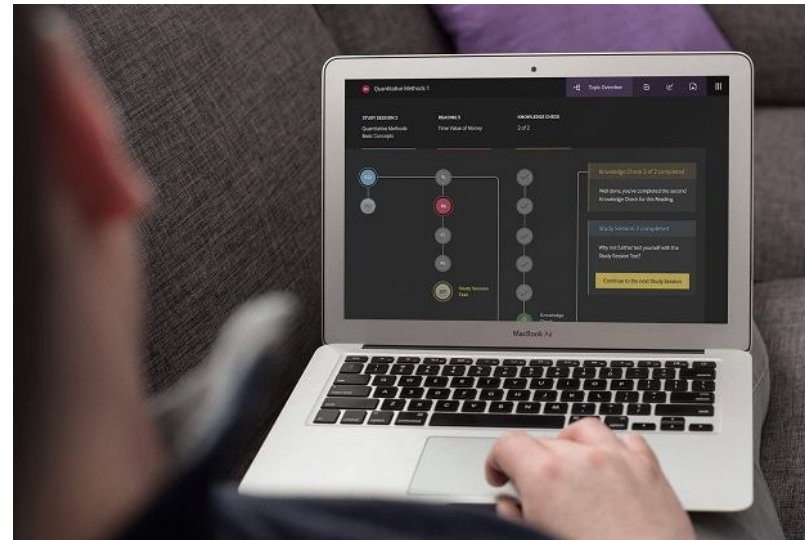
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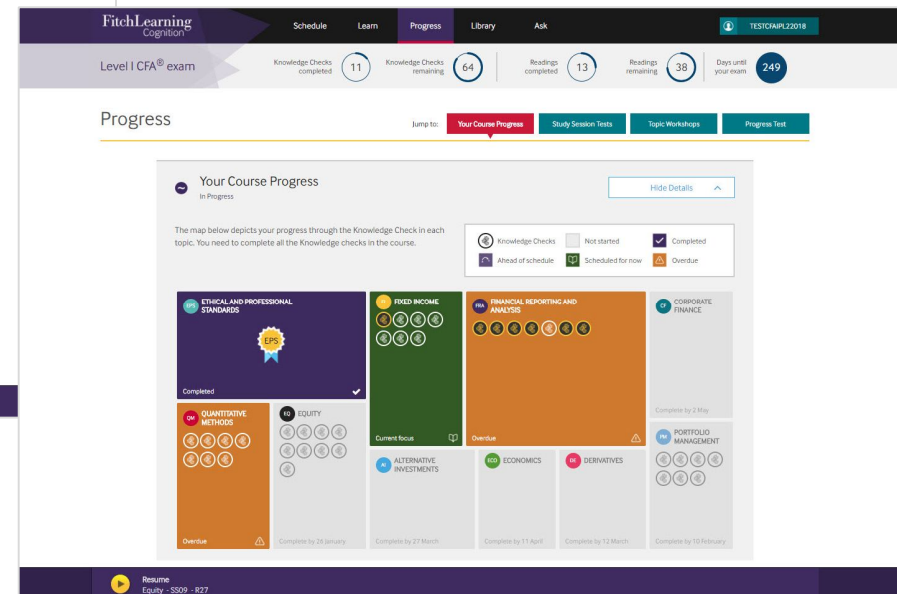
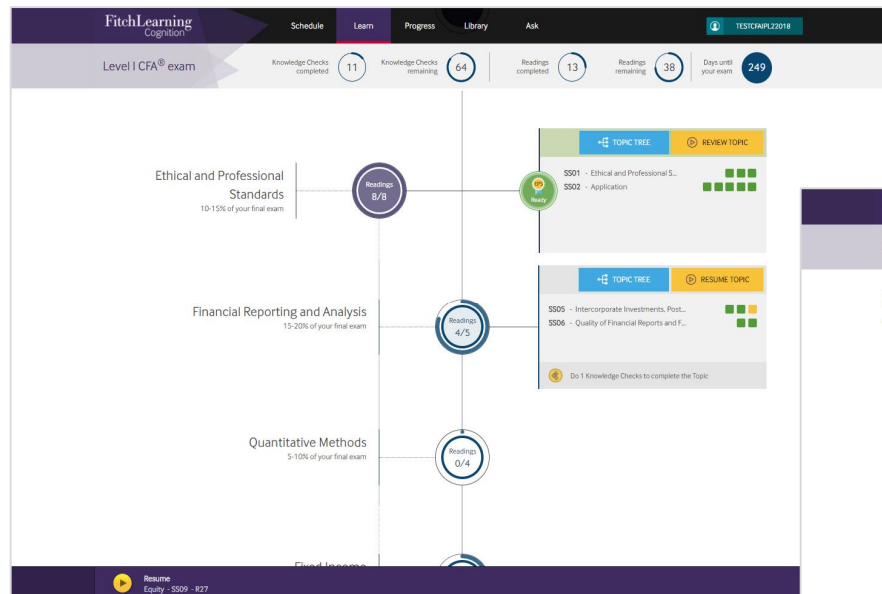
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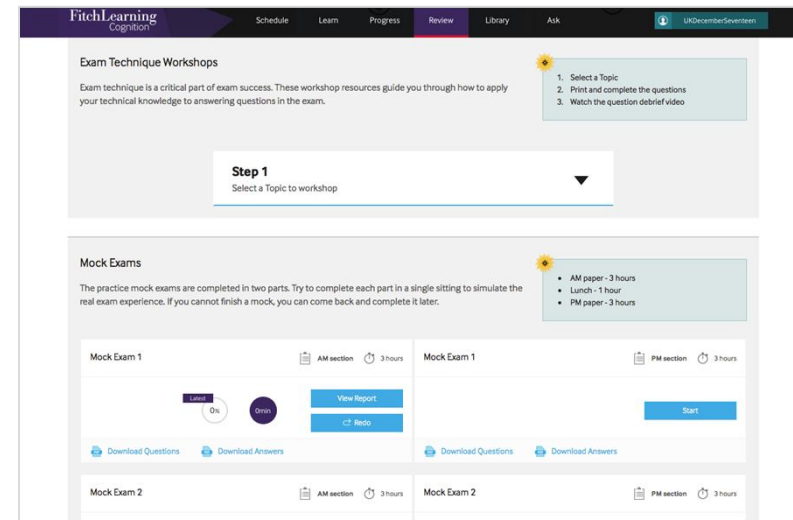
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# Coverage

## STUDY SESSION 6: FINANCIAL REPORTING AND ANALYSIS: AN INTRODUCTION

### Reading Assignments

**Reading 21:** Financial Statement Analysis: An Introduction

**Reading 22:** Financial Reporting Mechanics

**Reading 23:** Financial Reporting Standards

## STUDY SESSION 7: FINANCIAL REPORTING AND ANALYSIS: INCOME STATEMENTS, BALANCE SHEETS AND CASH FLOW STATEMENTS

### Reading Assignments

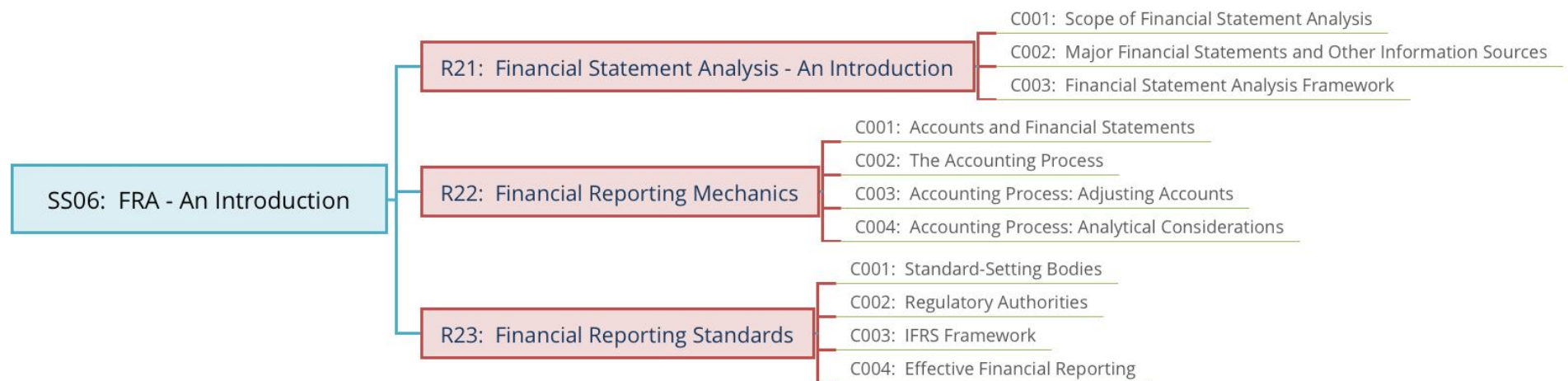
**Reading 24:** Understanding Income Statements

**Reading 25:** Understanding Balance Sheets

**Reading 26:** Understanding Cash Flow Statements

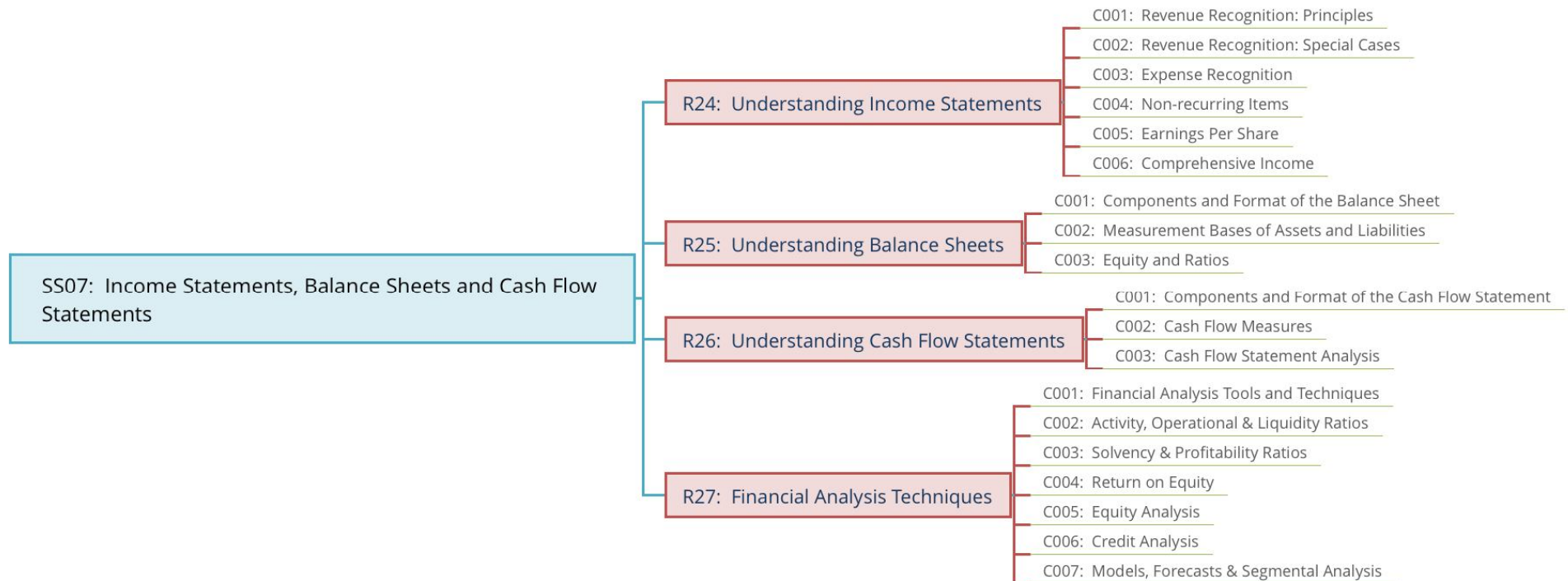
**Reading 27:** Financial Analysis Techniques

# SS6: FRA: An Introduction





# SS7: FRA: Income Statements, Balance Sheets and Cash Flow Statement



## Reading 21: Financial Statement Analysis: An Introduction

### Summary of key financial statements

- Income statement
- Balance sheet
- Statement of cash flows
- Statement of changes in owners' equity (including statement of comprehensive income)

### Summary of additional information

- Footnotes and supplementary schedules
- Management's discussion and analysis (MD&A)
- External auditor's report(s)

### Steps in the Financial Statement Analysis Process

**Step 1** - Articulate the purpose and context of analysis



**Step 2** - Collect all relevant data



**Step 3** - Process data



**Step 4** - Analyse results of data processing



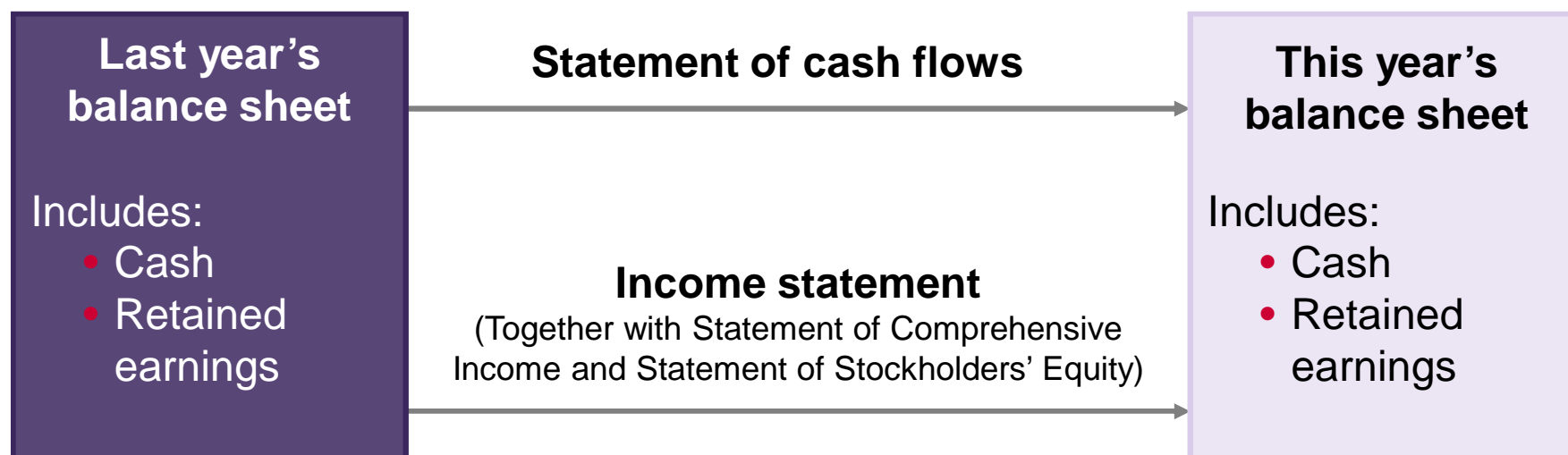
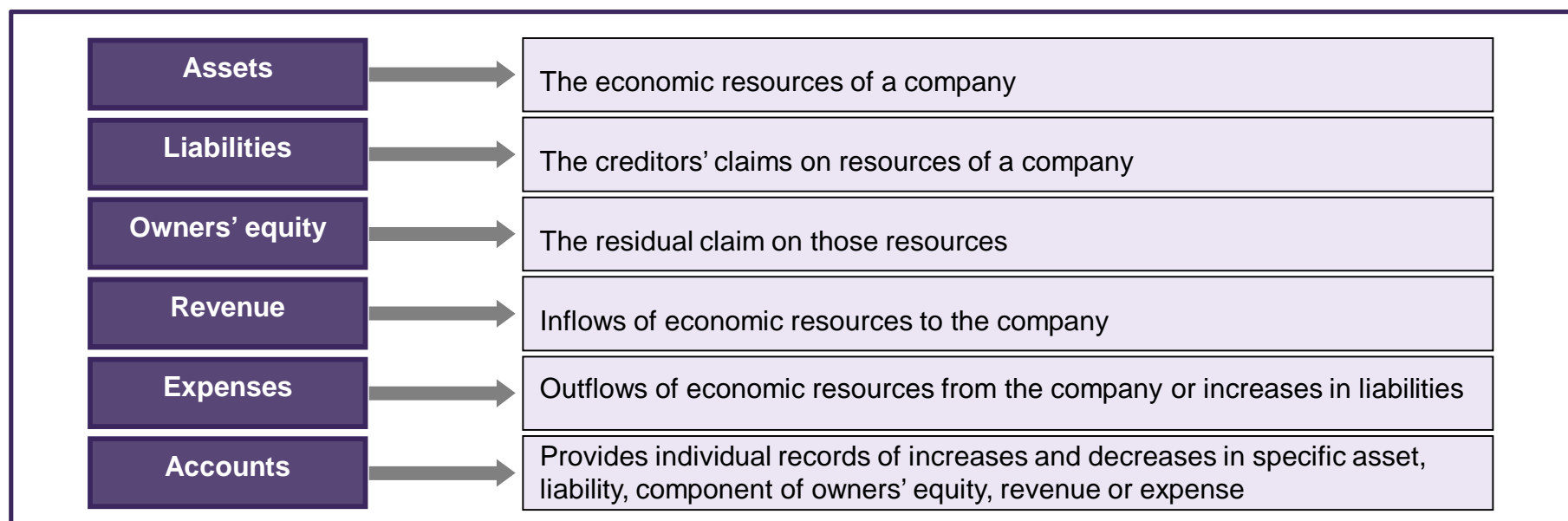
**Step 5** - Conclude recommendation and communicate this



**Step 6** - Follow-up



## Reading 22: Financial Reporting Mechanics



## Reading 23: Financial Reporting Standards

| Required Financial Statements   | Fundamental Principles  | Presentation Requirements  |
|---|---|--|
| Balance sheet<br>Income statement<br>Statement of changes in equity<br>Statement of cash flows<br>Accounting policies and notes | Fair presentation<br>Going concern<br>Accrual basis<br>Consistency<br>Materiality | Aggregation where appropriate<br>No offsetting<br>Classified balance sheet<br>Minimum information on face<br>Minimum note disclosures<br>Comparative information |

### Standard setters

- International Accounting Standards Board (IASB) - IFRS
- Financial Accounting Standards Board (FASB – US GAAP)

### Regulatory authorities

- US: Securities Exchange Commission (SEC)
- UK: Financial Conduct Authority (FCA) and Prudential Regulation Authority (PRA)

## Reading 24: Understanding Income Statements

### Revenue Recognition

|                          | Percentage-of-completion                             | Completed contract         |
|--------------------------|--|----------------------------|
| <b>Profit recognised</b> | Over the life of the contract                        | At the end of the contract |
| <b>Earnings</b>          | Higher   | Lower                      |
| <b>Assets</b>            | Higher   | Lower                      |
| <b>Equity</b>            | Higher   | Lower                      |
| <b>Approach</b>          | More aggressive because profit is recognised earlier | Less aggressive            |

## Reading 24: Understanding Income Statements

### Earning per share (EPS)

|  | Calculation  |
|--|--|
| <b>Basic EPS</b>                                   | $\frac{\text{Net income} - \text{preference dividends}}{\text{Weighted average number of shares}}$   |
| <b>Diluted EPS – convertible preference shares</b> | $\frac{\text{Net income}}{\text{Weighted average number of shares} + \text{New shares issued}}$  |
| <b>Diluted EPS – convertible bonds</b>             | $\frac{\text{Net income} - \text{preference dividends} + \text{post-tax interest saved}}{\text{Weighted average number of shares} + \text{New shares issued}}$   |
| <b>Diluted EPS – warrants/ employee options</b>    | $\frac{\text{Net income} - \text{preferred dividends}}{\text{Weighted average number of shares} + \text{New dilutive shares issued}}$<br>$\text{Dilutive shares} = \frac{\text{Av. share price} - \text{exercise price}}{\text{Average share price}} \times \text{no. of shares issued}$ |

## Reading 25: Understanding Balance Sheets

### Financial Assets

|   | Trading securities | Available-for-sale                            | Held-to-maturity |
|---|--------------------|---|------------------|
| Balance sheet valuation                           | Fair value         | Fair value                                    | Amortized cost   |
| Movements in fair value – unrealised gains/losses | Income statement   | Direct to equity – other comprehensive income | N/A              |
| Realised gains/losses                             | Income statement   | Income statement                              | Income statement |

\$ 000,

PPE<sub>0</sub> 230

PPE<sub>1</sub> 180

GAIN ON DISPOSAL 15

DEP. FOR YR 100

BV of Asset disposed 30

$$230 - 100 - 30 + \underset{\substack{\downarrow \\ 80}}{\text{New Asset}} = 180$$

$$\begin{array}{r} \text{Proceeds ?} \dots 45 \\ - \text{BV of Asset } 30 \\ \hline \text{GAIN } 15 \end{array}$$

$$CF1 = +45 - 80$$

## Reading 26: Understanding Cash Flow Statements

### Organization of statement of cash flows

Cash flows from operations (CFO)

+/- Cash flow from investing (CFI)

+/- Cash flow from financing (CFF)

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= Change in cash account

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+ Beginning period cash

---

= Ending cash balance

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### Indirect method

- Calculation of cash flows from operations (CFO)

#### Net income

---

+ Non-cash expenses

- Non-cash revenues

---

+ Decreases in accounts receivables/inventories

- Increase in accounts receivables/inventories

---

+ Increase in accounts payable/tax payable/interest payable

- Decrease in accounts payable/tax payable/interest payable

---

- Gain on disposal of an asset

+ Loss on disposal of an asset

---

= Cash flows from operations (CFO)

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|                    | US GAAP  | IAS GAAP  |
|--------------------|--|---|
| Interest received  | CFO  | CFO or CFI  |
| Interest paid      | CFO  | CFI or CFF  |
| Dividends received | CFO  | CFO or CFI  |
| Dividends paid     | CFF  | CFI or CFF  |
| Bank overdrafts    | CFF  | Considered part of cash and cash equivalents            |
| Taxes paid         | CFO  | CFO but some can be allocated to CFI/CFF if appropriate |
| Format             | Direct or indirect, reconciliation if direct is used | Direct or indirect                                      |



Ratios : LIFO v FIFO

: Sh v Accelerated

: Op. lease v Finance lease

: Capitalize v Expense

## Reading 27: Financial Analysis Techniques

Activity ratios 365  
Inv.T.

B/S + I/S OR

- Days of inventory on hand (DOH) =  $\frac{\text{Average inventory}}{\text{Cost of goods sold}} \times 365$

B/S + CF

- Days of sales outstanding (DSO) =  $\frac{\text{Average receivables}}{\text{Revenue}} \times 365$

- Payables days =  $\frac{\text{Average payables}}{\text{Purchases}} \times 365$

\*

7 + 2      60

$$\text{Cash conversion cycle} = \text{DOH} + \text{DSO} - \text{Payable days}$$

- Total asset turnover =  $\frac{\text{Revenue}}{\text{Average total assets}}$

Current ratio > 1

New transaction: Collect \$1m from receivables, & pay supplier. Current ratio will: A ↑ B ↓ C —

Rec'ble ↓ Cash ↑↓ Payables ↓

$$\frac{CA \downarrow}{CL \downarrow}$$

$$\frac{10}{5} = 2$$

$$\frac{9}{4} = 2.25$$

## Reading 27: Financial Analysis Techniques

### Liquidity ratios **SHORT TERM DEBT**

- Current ratio =  $\frac{\text{Current assets}}{\text{Current liabilities}}$
- Quick (acid test) ratio =  $\frac{\text{Current assets} - \text{Inventory}}{\text{Current liabilities}}$

### Solvency ratios **LONG-TERM DEBT**

- Debt - to - equity ratio =  $\frac{\text{Debt}}{\text{Equity}}$   **$\frac{D}{D+E}$**
- Financial leverage ratio =  $\frac{\text{Average total assets}}{\text{Average total equity}}$
- Interest cover =  $\frac{\text{Earnings before interest and tax(EBIT)}}{\text{Interest payments}}$

|         |              |  |          |                          |
|---------|--------------|--|----------|--------------------------|
| S       | 200          | $\frac{NI}{EBT} \times \frac{EBT}{EBIT} \times \frac{EBIT}{S} = \frac{NI}{S} = \frac{60}{200}$ |          |                          |
| COGS    | <u>(100)</u> | $\boxed{\frac{60}{80}}$  | $\times$ | $\boxed{\frac{80}{100}}$ |
| EBIT    | 100          |  | $\times$ | $\frac{100}{200}$        |
| Int 20% | <u>(20)</u>  | 0.75<br>↓<br>$1 - T$   | $\times$ | Op. Profit Margin<br>0.5 |
| EBT     | 80           |  |          |                          |
| Tax 25% | <u>(20)</u>  |  |          |                          |
| NI      | <u>60</u>    |  |          |                          |

## Reading 27: Financial Analysis Techniques

### Performance ratios

Return on equity

$$\text{ROE} = \frac{\text{Net income}}{\text{Average shareholders' equity}}$$

Two-stage DuPont

$$\text{ROE} = \text{ROA} \times \text{Leverage}$$

$$= \frac{\text{Net income}}{\text{Average total assets}} \times \frac{\text{Average total assets}}{\text{Average shareholders' equity}}$$

Three-stage DuPont

$$\text{ROE} = \text{Net profit margin} \times \text{Asset turnover} \times \text{Leverage}$$

$$\text{ROE} = \left( \frac{\text{EAT}}{\text{Revenue}} \right) \times \left( \frac{\text{Revenue}}{\text{Assets}} \right) \times \frac{\text{Assets}}{\text{Equity}}$$

Five-stage DuPont

$$\text{ROE} = \left( \frac{\text{EAT}}{\text{EBT}} \times \frac{\text{EBT}}{\text{EBIT}} \times \frac{\text{EBIT}}{\text{REVENUE}} \right) \times \frac{\text{REVENUE}}{\text{ASSETS}} \times \frac{\text{ASSETS}}{\text{EQUITY}}$$

# Coverage

## **STUDY SESSION 8 – FINANCIAL REPORTING AND ANALYSIS: INVENTORIES, LONG-LIVED ASSETS, INCOME TAXES, AND NON-CURRENT LIABILITIES**

### **Reading Assignments**

**Reading 28:** Inventories

**Reading 29:** Long-Lived Assets

**Reading 30:** Income Taxes

**Reading 31:** Non-Current (Long-Term) Liabilities

## **STUDY SESSION 9 – FINANCIAL REPORTING AND ANALYSIS: FINANCIAL REPORTING QUALITY AND FINANCIAL STATEMENT ANALYSIS**

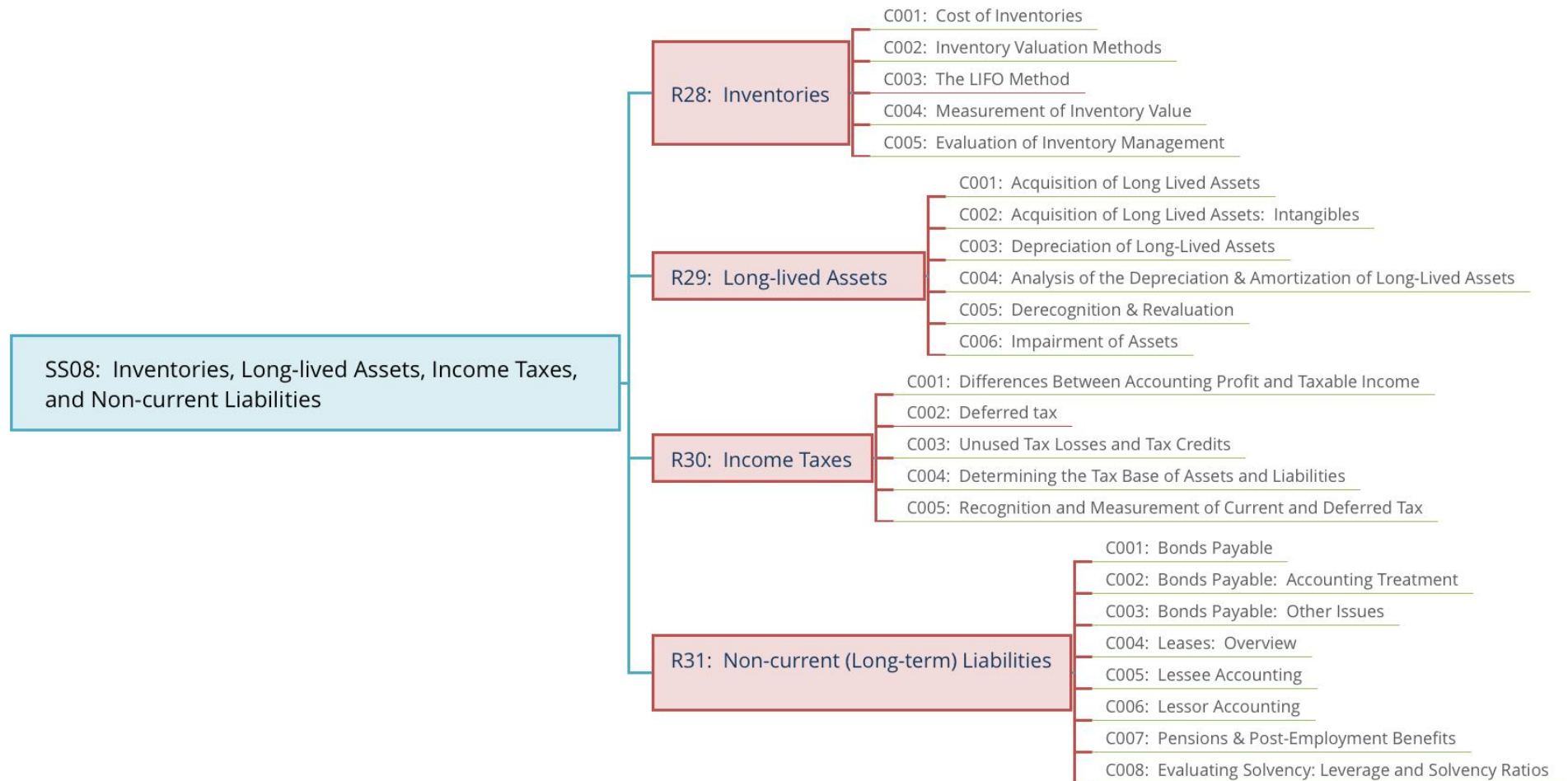
### **Reading Assignments**

**Reading 32:** Financial Reporting Quality

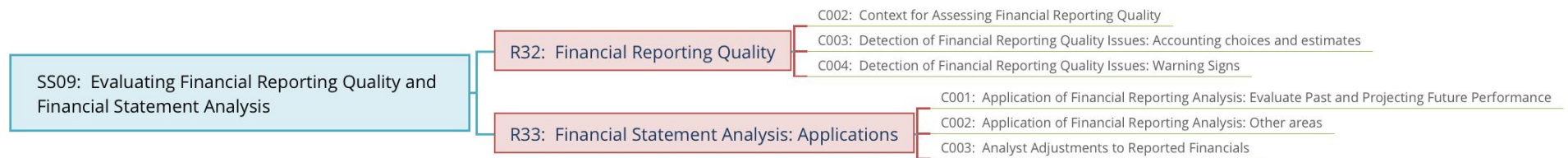
**Reading 33:** Financial Statement Analysis: Applications



# SS8: FRA: Inventories, Long-lived Assets, Income Taxes, and Non-current Liabilities



# SS9: Evaluating Financial Quality And Financial Statement Analysis



Assume:  $P \uparrow$  AND stable/rising inventory levels

$\boxed{L I} F O$

Lower Inventory

Lower Income

↳ Higher COGS

↳ Lower Tax

↳ Higher CFO

Opening Inv  
+ Purchases  
- Closing.

## Reading 28: Inventories

### Accounting for inventories and the cost of goods sold

|  |
|--|
| Beginning inventory (BI)                 |
| + Purchases (P)                          |
| <b>= Cost of goods available to sell</b> |
| - Ending inventory (EI)                  |
| <b>= Cost of goods sold (COGS)</b>       |

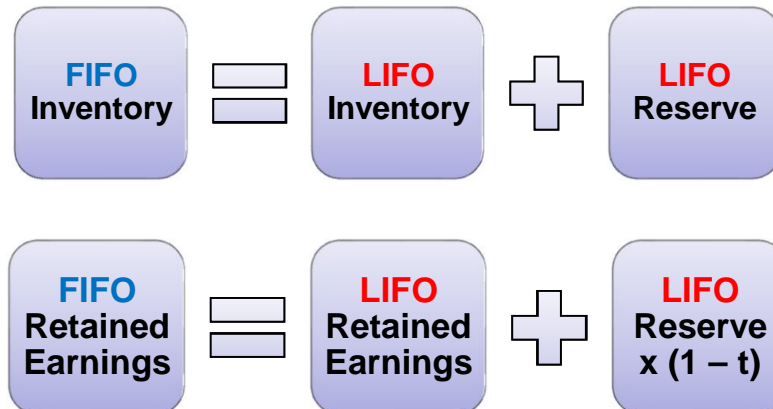
**Inventory methods:** In periods of rising prices and stable or increasing inventory levels

|                     | FIFO   | LIFO     |
|---------------------|--------|----------|
| Inventory           | Higher | Lower ✓  |
| Shareholder equity  | Higher | Lower ✓  |
| Earnings            | Higher | Lower ✓  |
| Pre-tax cash flow   | Same   | Same     |
| After-tax cash flow | Lower  | Higher ✓ |
| Profit margins      | Higher | Lower    |
| Asset turnover      | Lower  | Higher   |
| Current ratio       | Higher | Lower    |
| Debt to equity      | Lower  | Higher   |

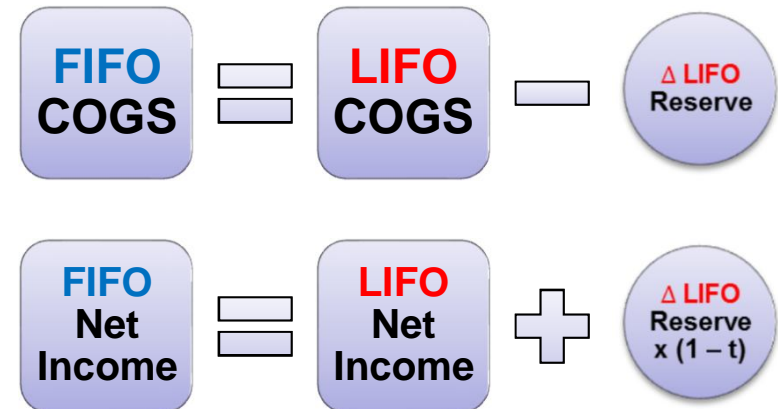
S  
TA

### LIFO Reserve

#### Balance Sheet



#### Income Statement



#### Instructor Tip:

"When adjusting a balance sheet number use the LIFO reserve as at that point in time, for an income statement number use the CHANGE ( $\Delta$ ) in the LIFO reserve"

2nd 4 (DEPR)

SL

2nd ENTER  $\times 2$

DB = 200 ↓

LIF 3 E ↓

MOI 1 E ↓

CST 40,000 E ↓

SAL 10,000 E ↓

YR 1 E ↓

YR 2 E ↓

YR 3 E ↓

Dep = 26,667

↑ Dep = 3,333 ↑

Dep 0

MACHINE COST \$40,000      SCRAP \$10,000

$$UEL = 3y$$

$$SL = \frac{\text{Net Cost}}{UEL} = \frac{40,000 - 10,000}{3} = 10,000$$

|          | ①      | ②      | ③      |
|----------|--------|--------|--------|
| BV       | 30,000 | 20,000 | 10,000 |
| Dep exp. | 10,000 | 10,000 | 10,000 |
| <hr/>    |        |        |        |
| Dep exp  | 26,667 | 3,333  | 0      |
| BV       | 13,333 | 10,000 | 10,000 |

$$ROA = \frac{NI \downarrow}{TA \downarrow}$$

$$\frac{20}{100} \rightarrow \frac{4}{84}$$

|                      |          |
|----------------------|----------|
| SL $\rightarrow$ DDB |          |
| ⋮                    | ⋮        |
| 10,000               | 26,667   |
| exp.                 | exp      |
| BV 30,000            | ✓ 13,333 |



## Reading 29: Long-Lived Assets

### Capitalising

Where cash outflows are considered to provide benefits in the future, typically beyond one year, the spending can be capitalised

Decrease cash

Increase assets (PPE or intangibles)

Further adjustments

Depreciation/amortization

### Expensing

Where the outflow is not expected to provide a benefit for future periods the amount is deducted from Net Income in the period and therefore expensed

Decrease cash

Decrease equity

Where spending is expensed in the period incurred, no further charges to income are required

### Depreciation methods

- Straight line
  - Cost of asset allocated to expense evenly over its useful life

$$\text{Depreciation expense} = \frac{\text{Cost} - \text{Estimated residual (salvage) value}}{\text{Useful life (UEL)}}$$

- Accelerated methods
  - Allocation of cost is greater in earlier years
  - Double declining balance:

$$\text{Depreciation expense} = \text{Constant \%} \times \text{Undepreciated cost}$$

$$\text{Constant \%} = 2 / \text{Useful life}$$

$$\text{Undepreciated cost} = \text{Cost} - \text{Accumulated depreciation}$$

#### Instructor Tip:

*“The calculator has the [DEPR] function that can calculate depreciation for you! Take a look at the calculator recording on Cognition”*

### Effect of depreciation choices on key financial ratios

- Straight line vs. accelerated methods (early years of asset life)

| Variable                        | Straight line | Accelerated |
|---------------------------------|---------------|-------------|
| Assets                          | Higher        | Lower       |
| Earnings                        | Higher        | Lower       |
| Shareholders' equity            | Higher        | Lower       |
| Cash flow                       | Same          | Same        |
| Profit margin (profit/revenue)  | Higher        | Lower       |
| Current ratio (CA/CL)           | Same          | Same        |
| Asset turnover (revenue/assets) | Lower         | Higher      |
| Debt-to-equity (debt/equity)    | Lower         | Higher      |
| Return-on-assets (NI/assets)    | Higher        | Lower       |
| Return-to-equity (NI/Equity)    | Higher        | Lower       |

## Reading 29: Long-Lived Assets

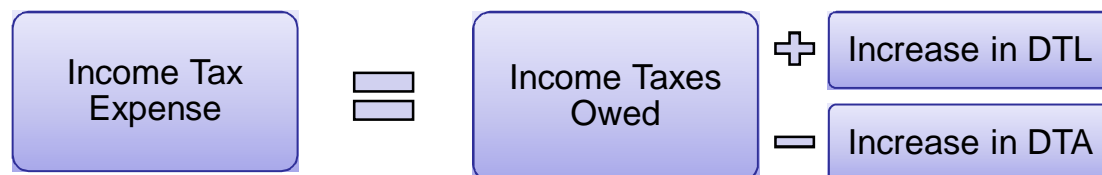
|   | US GAAP     | IFRS        |
|---|-------------|-------------|
| Reversal of impairment of inventory                             | Not allowed | Permitted   |
| Reversal of impairment of long-lived assets held for use        | Not allowed | Permitted   |
| Reversal of impairment of long-lived assets held for sale       | Permitted   | Permitted   |
| Reversal of impairment of intangible assets other than goodwill | Not allowed | Permitted   |
| Reversal of impairment of goodwill                              | Not allowed | Not allowed |
| Revaluation of long-lived assets                                | Not allowed | Permitted   |
| Revaluation of goodwill   | Not allowed | Not allowed |

## Reading 30: Income Taxes

### Differences between accounting profit and taxable income

- Permanent differences
  - Income or expenses are included in either pre-tax income or taxable income but not both
- Temporary differences
  - Income or expenses are included in both pre-tax income and taxable income but in different periods:
    - Warranty expense
    - Accounting depreciation methods vs. tax depreciation methods
    - Tax losses

### Income tax expense in income statement



### Deferred tax liabilities (DTL)

- Pre-tax income > taxable income
- Difference due to a temporary timing difference
- E.g. accelerated tax depreciation vs. accounting depreciation

### Deferred tax assets (DTA)

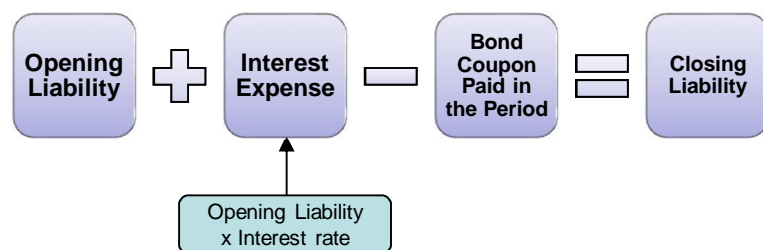
- Pre-tax income < taxable income
- E.g. accounting expenses not being recognized for tax purposes such as warranty expense
- Tax losses

| Balance sheet item | Carrying amount vs. tax base | DTL/DTA |
|--------------------|------------------------------|---------|
| Asset              | Carrying amount > tax base   | DTL     |
| Asset              | Carrying amount < tax base   | DTA     |
| Liability          | Carrying amount > tax base   | DTA     |
| Liability          | Carrying amount < tax base   | DTL     |

## Reading 31: Non-Current (Long-Term) Liabilities

### Accounting for bonds

- Date of issue
  - Recognize present value of liability on balance sheet
- Interest expense
  - Opening liability x Yield at date of issue
- Liability in balance sheet



- Cash flow statement
  - Coupons
    - CFO (IFRS CFO/CFF)
  - Proceeds/repayment of principal
    - CFF

### Summary

- Bonds issued at par
  - Market rate = Coupon rate
  - Interest expense = Coupon payment
- Bonds issued at a discount to par value
  - Market rate > Coupon rate
  - Interest expense > Coupon payment



- Zero-coupon bonds
  - Market rate > Coupon rate
  - Interest expense > Coupon payment
  - Interest expense = Amortization of discount
- Bonds issued at a premium to par value
  - Market rate < Coupon rate
  - Interest expense < Coupon payment



## Reading 31: Non-Current (Long-Term) Liabilities

### Finance (or capital) lease vs. operating lease

- Finance leases are recognized on balance sheet
- Operating leases are treated like a rental
  - No asset or liability recognized on balance sheet
  - Rental expense recognized in income statement

### Leases

#### IFRS criteria for recognizing a finance lease

- Lease transfers ownership of asset to lessee by end of lease term, **or**
- Lessee has option to purchase asset at less than fair value, **or**
- Lease term is for major part of economic life of asset

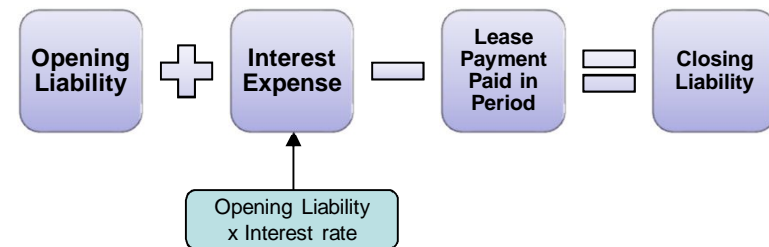
#### US GAAP criteria for recognizing a finance lease

- Title transferred during the life of the lease, **or**
- Bargain purchase option (asset can be purchased at less than fair value), **or**
- Lease period **at least 75% of asset's life\***, **or**
- PV of lease payments **at least 90% of FV of asset\***
  - \*N/A to leases commencing in final 25% of asset life

| Effects of using operating vs. capitalized methods (early years) | Operating lease | Capital lease |
|--|-----------------|---------------|
| Profit margin (early years)                                      | Higher          | Lower         |
| Profit margin (later years)                                      | Lower           | Higher        |
| Asset turnover (revenue / assets)                                | Higher          | Lower         |
| Current ratio (CA/CL)  | Higher          | Lower         |
| Debt / equity (debt / equity)                                    | Lower           | Higher        |
| Return-on-assets (EAT / total assets)                            | Higher          | Lower         |
| Return-on-equity (EAT / equity)                                  | Higher          | Lower         |
| Interest coverage (EBIT / I)                                     | Higher          | Lower         |

### Accounting for a finance lease

- Amortized cost method
  - Recognize asset and liability on balance sheet
    - Present value of minimum lease payments
  - Income statement expense
    - Depreciation of asset
    - Interest expense
      - Opening liability x Effective interest rate
  - Balance sheet



- Cash flow statement
  - Interest portion of lease payment = CFO (US) or CFO/CFF (IFRS)
  - Principal payment = CFF

#### Instructor Tip:

*"You can use the [AMORT] function of the calculator to solve for the interest expense, outstanding balance and principal repayment of the finance lease. View the calculator tutorial on Cognition."*

# Leases – Example

## Example 31.3: Accounting for leases by a lessee

The details of a lease are as follows:

- Equipment is leased for four years
- Lease payments: \$1,000 due at the end of the year
- Rate implicit in the lease: 10%
- Economic life of the asset: five years
- Current fair market value of the asset: \$3,500

Show the effect of the above lease on the financial statements:

- If it is accounted for as a finance lease
- If it is accounted for as an operating lease

## Leases – Example

Solution 31.3: Accounting for leases by a lessee

| Period | Opening balance | Interest expense<br>(income statement)<br>@10% | Cash payment | Closing balance<br>(balance sheet) |
|--------|-----------------|--|--------------|------------------------------------|
| 1      | 3,170           | 317  | (1,000)      | 2,487                              |
| 2      | 2,487           |  |              |                                    |
| 3      |                 |  |              |                                    |
| 4      |                 |  |              |                                    |



# Leases – Example

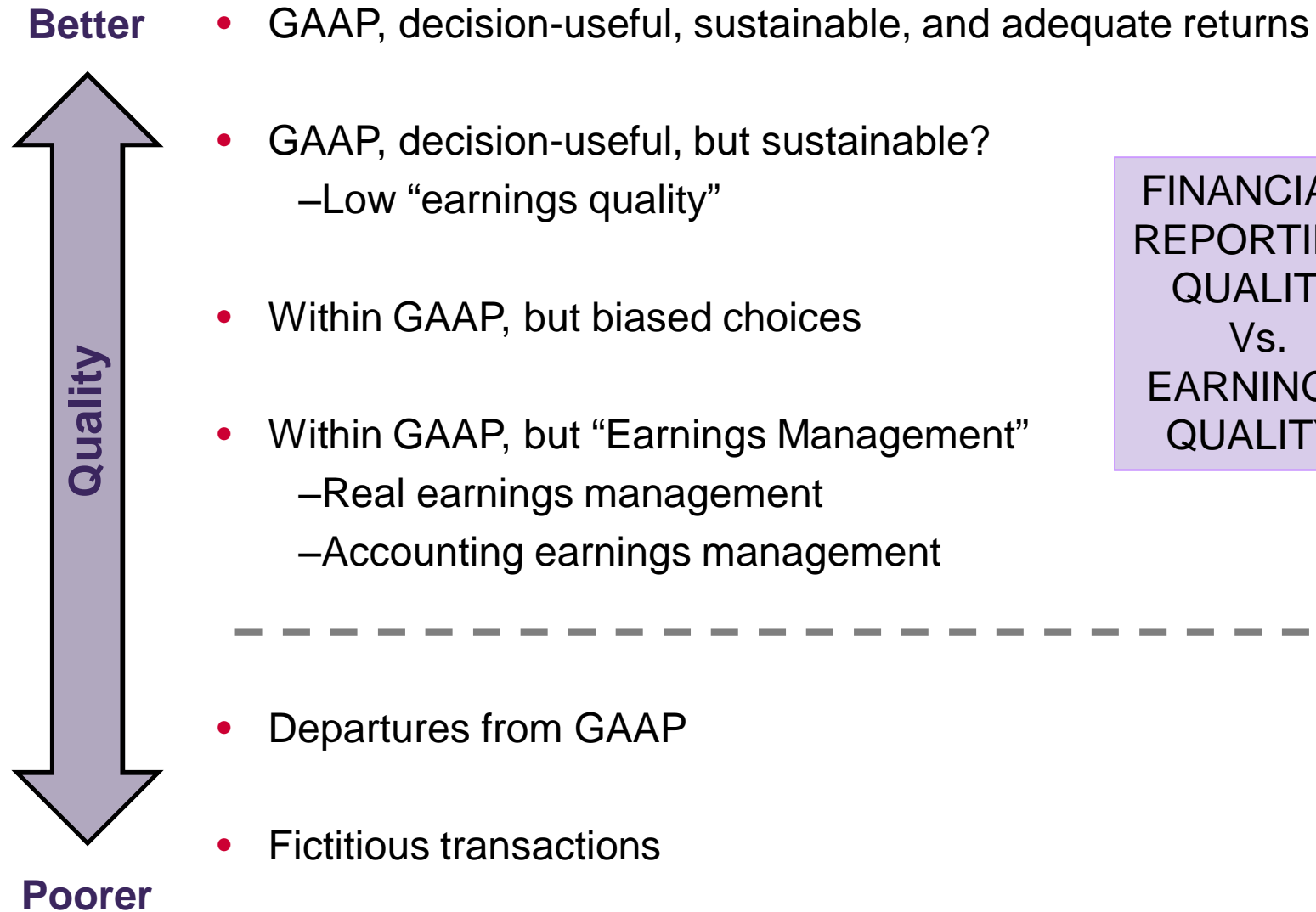
## Operating lease

- Balance sheet
  - No asset or debt-recognized balance sheet
- Income statement
  - Operating lease rental \$1,000 p.a.

|                        | Year 1       | Year 2       | Year 3       | Year 4       |  | Total        |
|------------------------|--------------|--------------|--------------|--------------|--|--------------|
| <b>Finance lease</b>   |              |              |              |              |  |              |
| Depreciation           | 793          | 793          | 792          | 792          |  | 3,170        |
| Interest expense       | 317          | 249          | 174          | 90           |  | 830          |
| <b>Total</b>           | <b>1,110</b> | <b>1,042</b> | <b>966</b>   | <b>882</b>   |  | <b>4,000</b> |
|                        |              |              |              |              |  |              |
| <b>Operating lease</b> | <b>1,000</b> | <b>1,000</b> | <b>1,000</b> | <b>1,000</b> |  | <b>4,000</b> |

## Reading 32: Financial Reporting Quality

### Quality Spectrum of Financial Reports



FINANCIAL  
REPORTING  
QUALITY  
Vs.  
EARNINGS  
QUALITY

## Reading 33: Financial Statement Analysis: Applications

### Adjustments related to property, plant and equipment

- Relationships:
  - $\text{Accumulated depreciation} / \text{Gross PPE} = \text{How much of life has passed}$
  - $\text{Accumulated depreciation} / \text{Depreciation expense} = \text{Average age of asset base}$
  - $\text{Net PPE} / \text{Depreciation expense} = \text{How many years of UEL remain}$
  - $\text{Gross PPE} / \text{Depreciation expense} = \text{Average life of assets at start}$
  - $\text{Capex} / \text{PPE} + \text{Capex} = \% \text{ of asset base being renewed}$
  - $\text{Capex vs. disposals} = \text{growth of asset base}$

### Other Adjustments

- Restate LIFO balances to FIFO
- Remove goodwill when calculating ratios such as price-to-book value
- Capitalise operating leases
  - Increase assets and liabilities
  - Recalculate debt/equity ratio



## Contact

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